

Operations with Functions

Not all rules can be combined, rules that are functions can be

If f and g are two functions with a common domain, then the sum of f and g , is defined to be:

$$(f + g)(x) = f(x) + g(x)$$

The difference of f and g is defined by: $(f - g)(x) = f(x) - g(x)$

and

the quotient of f and g is defined by $(f/g)(x) = \frac{f(x)}{g(x)}$ where $g(x)$ cannot be zero.